



**Agilent Technologies**

## Agilent E5904B Option 310 Trace Port Analyzer for Texas Instruments OMAP1510

### ***For use with an external run control unit.***

The dual-core architecture of Texas Instruments' OMAP processor combines a TI-enhanced ARM® 925 processor with a TI TMS320C55x DSP core. This dual-core architecture is optimized for command and control functions, multimedia, and user interface applications.

The Agilent Technologies E5904B Option 310 Trace Port Analyzer provides real-time trace analysis of the ARM 925 core via an Embedded Trace Macrocell in the ARM core. TI's Code Composer Studio can be used to debug and trace the ARM core and/or debug the DSP core.

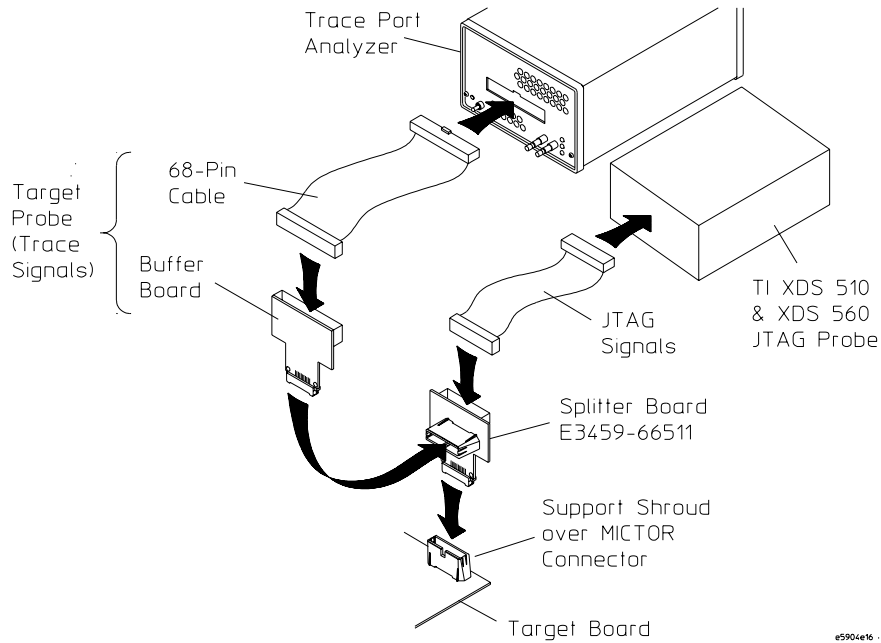
When using TI's Code Composer Studio, a TI XDS510 or XDS560 run control probe is used for JTAG run control of the TI DSP and/or the ARM core. The JTAG connection must be made by means of the TI XDS probe.

This product differs from the E5904B Option 300 in that the Agilent E3459-66511 splitter board (included) routes the trace signals to one connector and the JTAG run control signals to another connector. The Agilent trace port analyzer collects trace information, and a separate run control probe (such as the TI XDS-series) can be used for JTAG run control operations.

The Agilent Technologies E5904B Option 310 Trace Port Analyzer consists of:

- The Agilent E5904B Option 300 Trace Port Analyzer.
- The Agilent E3459-66511 Signal Splitter Board.
- This information sheet.

## System connections



The Agilent E3459-66511 splitter board pinout is compatible with the TI XDS 510 and XDS 560 JTAG probes.

### JTAG connector on the Agilent E3459-66511 splitter board

VTref 1	○ ○	2 VSupply
nTRST 3	○ ○	4 GND
TDI 5	○ ○	6 GND
TMS 7	○ ○	8 GND
TCK 9	○ ○	10 GND
RTCK 11	○ ○	12 GND
TDO 13	○ ○	14 GND
nSRST 15	○ ○	16 GND
DBGRRQ 17	○ ○	18 GND
DBACK 19	○ ○	20 GND

The pin assignments of the MICTOR connector on your target system must match those given in the *Agilent Technologies E5904B Option 300 Trace Port Analyzer for ARM User's Guide* (included).



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 Document Part Number E5842-92000, February 2002  
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